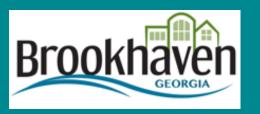
### DRESDEN DRIVE INTERSECTION IMPROVEMENT ANALYSIS





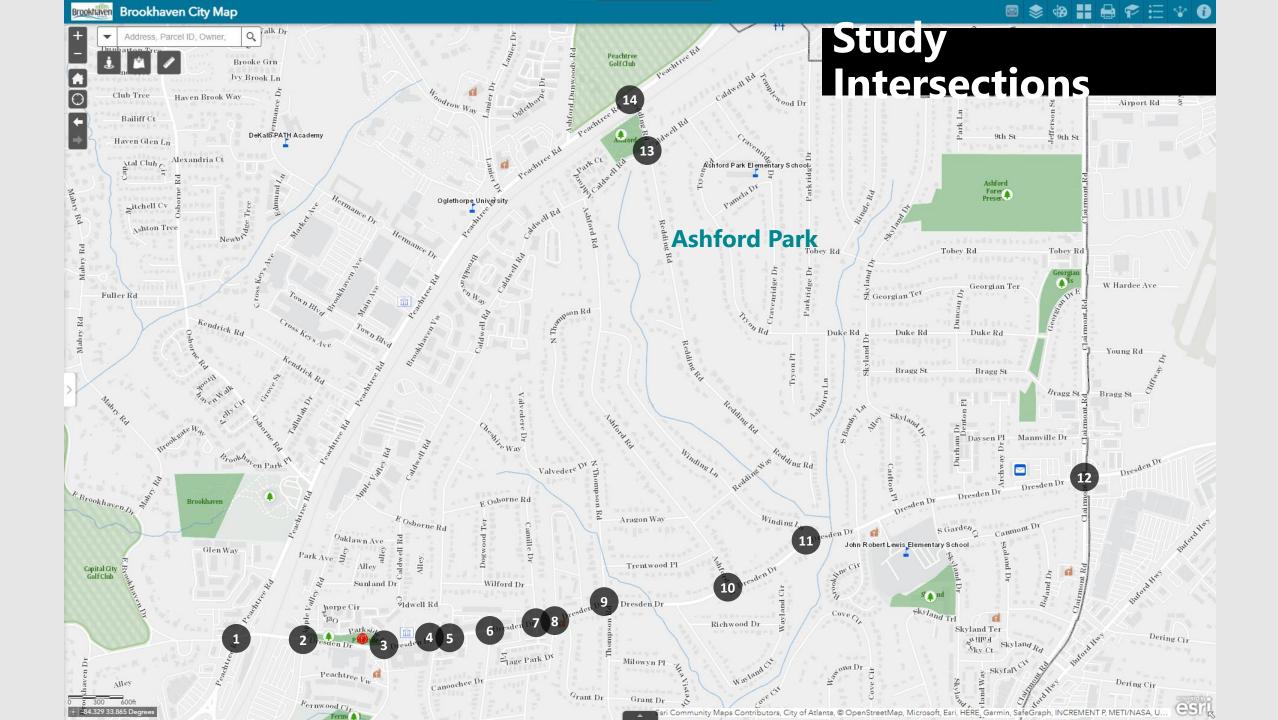


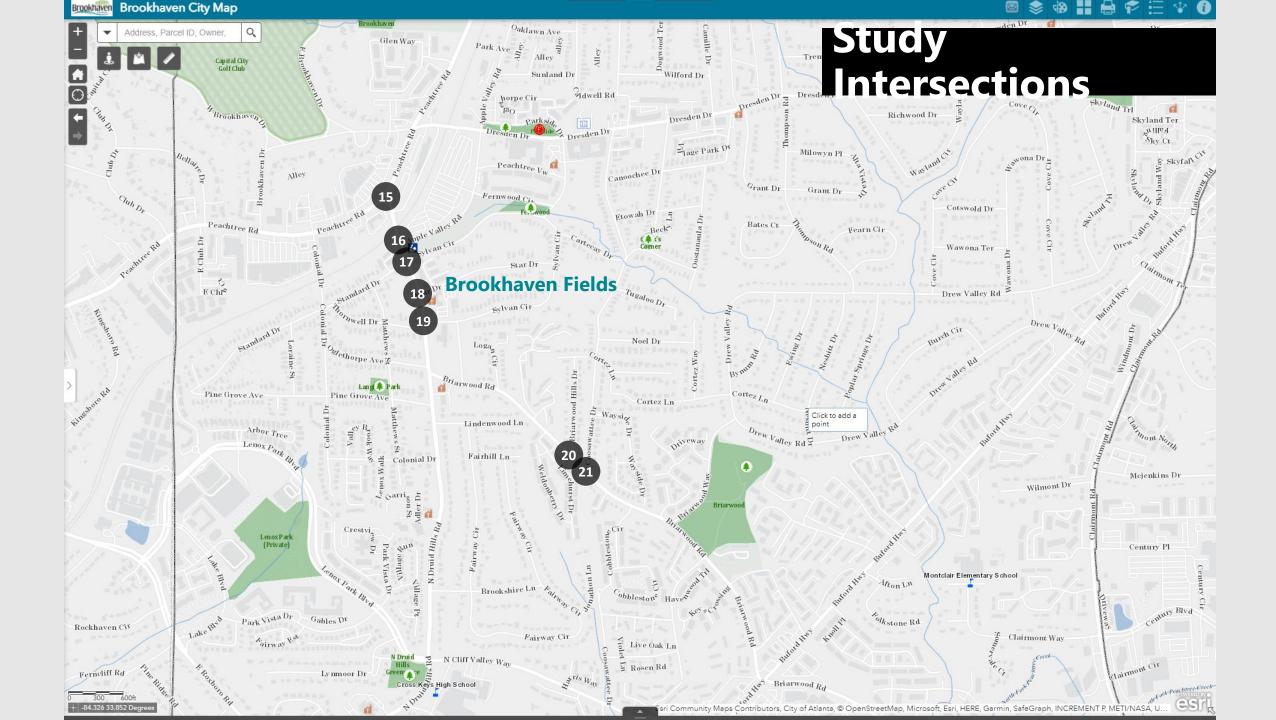


## **Study Intersections**

- Dresden Dr at Peachtree Rd
- Dresden Dr at Apple Valley Rd
- Dresden Dr at Fernwood Cir
- 4. Dresden Dr at Ellijay Dr
- Dresden Dr at Caldwell Rd
- 6. Dresden Dr at Appalachee Dr
- 7. Dresden Dr at Camille Dr
- 8. Dresden Dr at Conasauga Ave
- Dresden Dr at North Thompson Rd
- 10. Dresden Dr at Ashford Rd
- 11. Dresden Dr at Winding Ln

- 12. Dresden Dr at Clairmont Rd
- 13. Redding Rd at Caldwell Rd
- 14. Redding Rd at Peachtree Rd
- 15. North Druid Hills Rd at Peachtree Rd
- 16. North Druid Hills Rd at Apple Valley Rd
- 17. North Druid Hills Rd at Sylvan Cir (N)
- 18. North Druid Hills Rd at Star Dr
- North Druid Hills Rd at Sylvan Cir (S)
- 20. Briarwood Rd at Briarwood Hills Dr
- 21. Briarwood Rd at Coosawattee Dr

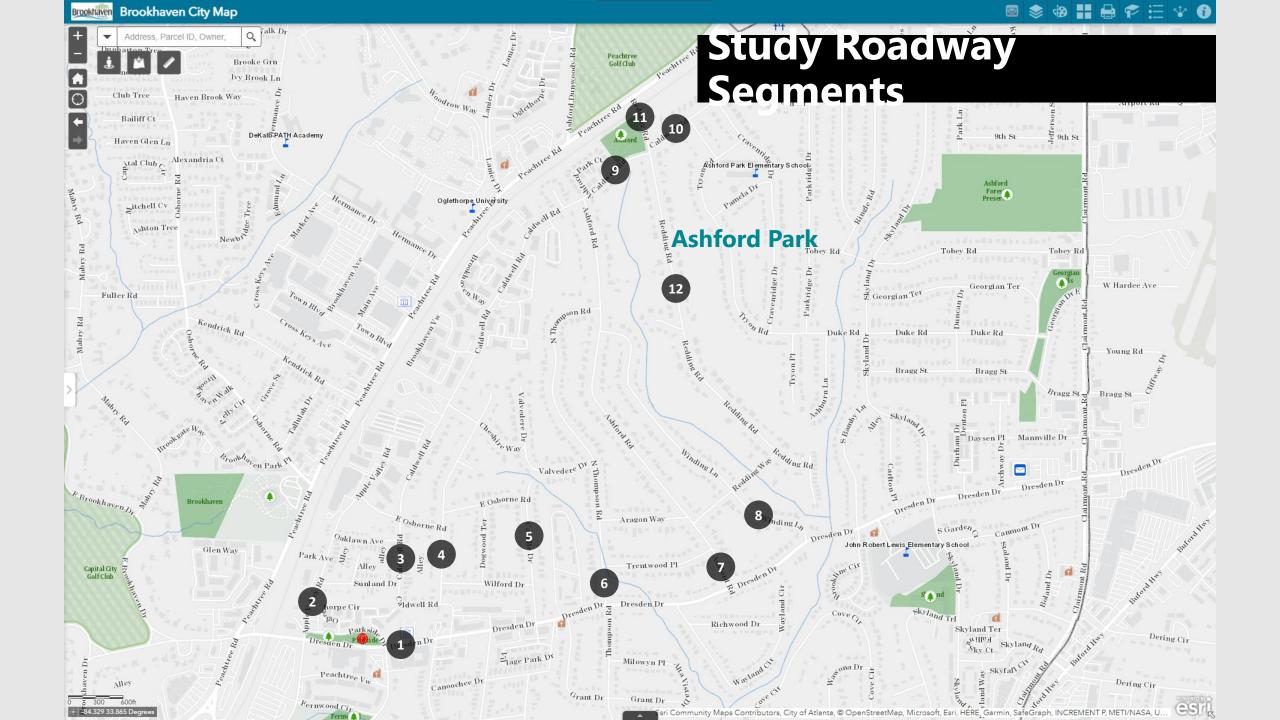


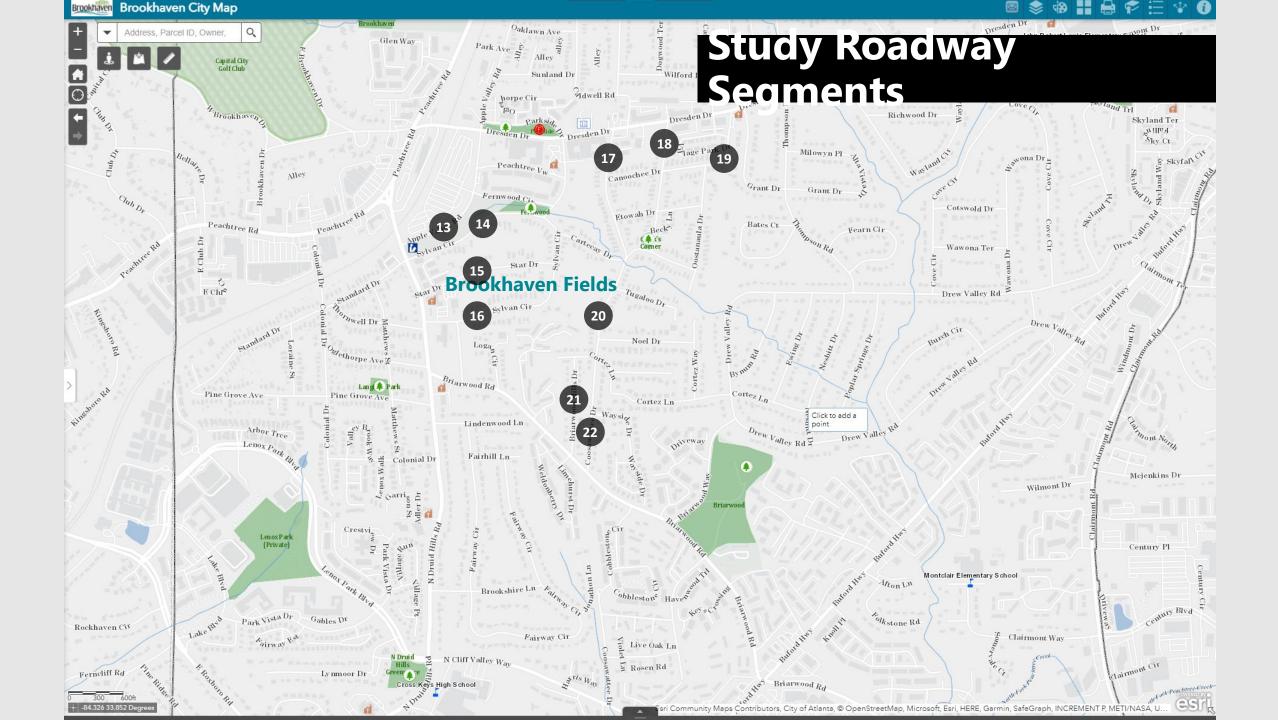


## **Study Roadway Segments**

- Dresden Dr between Peachtree Rd and Clairmont Rd
- 2. Apple Valley Rd between Parkside Dr and Sunland Dr
- 3. Caldwell Rd between Sunland Dr and Oaklawn Ave
- Green Meadows Ln between Wilford Dr and East Osborne Rd
- 5. Camille Dr between Wilford Dr and E Osborne Rd
- 6. North Thompson Rd between Dresden Dr and Trentwood Pl
- 7. Ashford Rd between Dresden Dr and Trentwood Pl
- Winding Ln between Dresden Dr and Redding Way
- 9. Caldwell Rd between Ashford Rd and Redding Rd
- 10. Caldwell Rd between Cynthia Dr and Redding Rd
- 11. Redding Rd between Caldwell Rd and Peachtree Rd

- 12. Redding Rd between Caldwell Rd and Redding Way
- 13. Apple Valley Rd between North Druid Hills Rd and Fernwood Cir
- 14. Sylvan Cir (N) between North Druid Hills Rd and Fernwood Cir
- 15. Star Dr between North Druid Hills Rd and Sylvan Cir
- 16. Sylvan Cir (S) between North Druid Hills Rd and Star Dr
- 17. Ellijay Dr between Towne Estates Dr and Canoochee Dr
- 18. Appalachee Dr between Dresden Dr and Canoochee Dr
- 19. Conasauga Ave between Dresden Dr and Oostanaula Dr
- 20. Coosawattee Dr between Tugaloo Dr and Noel Dr
- Briarwood Hills Dr between Briarwood Rd and Telford Dr
- 22. Coosawattee Dr between Briarwood Rd and Wayside Dr





### **Traffic Counts**

- New 2022 turning movement counts at all study intersections (2 hours in the AM and 2 hours in the PM)
- New 2022 24-hour classification and speed counts at all study roadway segments
- COVID adjustment to be applied to 2022 counts
  - Based on comparing available 2016 counts and newly collected counts
  - AM Peak Hour = 125%
  - PM Peak Hour = 115%

# **Traffic Volume Projections**

- Recent historical growth
  - Based on GDOT's historical traffic count data = 1.3% annual
- Expected future growth
  - Based on Atlanta Regional Commission's (ARC) travel demand model = 0.6% annual
  - Based on ARC's population projections = 1.0% annual
- Growth Scenarios
  - Low = 0.50% annual + Development traffic
  - Medium = 0.75% annual + Development traffic
  - High = 1.00% annual + Development traffic

## **Development Assumptions**

Dresden Corridor Traffic Study 2021 - Development Assumptions									
Property	Acres	Source of estimates	Will be	Apartments/	Townhomes and	Retail (incl	Office	Hotel rooms	Other
			built by	Condos	detached	restaurants) sq ft	sq ft		
					homes				
MARTA	17.76	MARTA TOD Visioning Study completed by TSW	2026	196	32	140,000	936,000	225	
		(2019)							
PR-3-zoned Properties at North End of Apple	20.84	Apple Valley Entertainment District Feasibility	2026	250		101,700	31,500	70	
Valley (2678-2776 Caldwell Road; 2697-2755		Study completed by ULI Atlanta Center for							
Apple Valley Road; 2580-2587 East Osborne		Leadership (2020)							
Road)									
1411, 1417, 1423, & 1427 Dresden Drive	2.03	PR-2 regulations. Estimate 20-25 units/acre.	2026	50		25,054			
(Common Name: Terwilliger-Pappas)									
1336, 1342, 1350, 1358, 1364, 1370, and 1376	4.00	Square footage estimate as of January 2021 draft	2026	177	7	26,601			
Dre sden Drive; 2536, 2544, 2552, and 2562		provided by Connolly; not formally submitted at							
Caldwell Road		this time but anticipated							
(Common Name: Dresden Village)									
University Baptist Church	1.48	PR-2 regulations. Estimate 20-25 units/acre	2026	36		18,266			
Grand Total	46.11			709	39	311,621	967,500	295	

These are just assumptions about what is likely to be built. These assumptions represent neither:

• Traffic generated by the above listed developments will be added to all growth scenario traffic projections.

<sup>1.</sup> a commitment from the City to endorse or approve these projects, nor

the wishes of the surrounding community that requested the traffic study.

# **Traffic Analysis**

- Analysis Years
  - Existing Year = 2022
  - 5-year horizon = 2027
  - 15-year horizon = 2037
  - 25-year horizon = 2047

## **Intersection Analysis**

- Increase in traffic volumes
  - for the low-, medium-, and high-growth scenarios; and
  - for the five (5), 15, and 25-year time horizons
- Intersection capacity analysis (intersection levels of service and intersection control delays)
  - Dresden Dr at Peachtree Rd
  - 2. Dresden Dr at Apple Valley Rd
  - 3. Dresden Dr at Ellijay Dr
  - 4. Dresden Dr at Caldwell Rd
  - Dresden Dr at Clairmont Rd

Note: Intersection capacity analysis will be performed at the above 5 critical intersections along Dresden Dr to calculate intersection levels of service and vehicular delays. At all other intersections, the traffic analysis will calculate increases in traffic due to growth in traffic generated by the identified developments.

# **Roadway Segment Analysis**

- Increase in traffic volumes
  - for the low-, medium-, and high-growth scenarios; and
  - for the five (5), 15, and 25-year time horizons

### **Types of Recommendations**

- Improvements based on most likely growth scenario (medium)
  - Intersection improvements by mode of travel (i.e., vehicular operations, pedestrian operations, bicycle operations)
  - Intersection turn restrictions
  - One-way or two-way conversions
- Considerations associated with the other two, less likely growth scenarios
- Considerations for bicycle facilities, including trade-offs related to narrowing lanes and removal of on-street parking.

Note: Given that the City of Brookhaven has committed to updating the current Bicycle, Pedestrian and Trail Plan in the near future, the scope for this study does not include a corridor-wide assessment of bicycle facilities or bicycle needs along Dresden Drive. Therefore, this study will develop considerations for bicycle facilities and not recommendations for implementation.

### **Deliverables**

- Updated traffic study
  - Traffic volume increase for the three growth scenarios and three horizon years at the study intersections and roadway segments
  - Intersection capacity analysis (LOS and delay) at:
    - 1. Dresden Dr at Peachtree Rd
    - 2. Dresden Dr at Apple Valley Rd
    - 3. Dresden Dr at Ellijay Dr
    - 4. Dresden Dr at Caldwell Rd
    - 5. Dresden Dr at Clairmont Rd
  - Improvements and considerations at study intersections and roadway segments
  - Conceptual engineering drawings
    - 1. Dresden Dr at Apple Valley Rd
    - 2. Dresden Dr at Ellijay Dr
    - 3. Dresden Dr at Caldwell Rd
    - 4. Dresden Dr at Clairmont Rd

### **Next Steps**

- Small group meeting to discuss traffic study update assumptions 12/13/2021
- Publish assumptions to project website week of 12/20/2021
- New traffic counts week of 01/24/2022
- Public meeting to present new data and assumptions week of 02/07/2022
- Publish first draft traffic study, recommendations to project website week of 03/14/2022
- Public meeting to present draft recommendations week of 03/21/2022
- Publish revised draft traffic study, recommendations to project website week of 04/25/2022
- Mayor and Council Presentation week of 05/09/2022
- Publish final traffic study, recommendations to project website week of 05/16/2022